

EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S7	500	(automatic with gain with control\$4) same (bandwidth) same (phase)	US-PGPUB; USPAT; USOCR; EPO; JPO	AND	OFF	2007/05/02 15:05
S8	32	(automatic with gain with control\$4) same (bandwidth) same (phase) same correlat\$4	US-PGPUB; USPAT; USOCR; EPO; JPO	AND	OFF	2007/05/02 15:06
S9	63	(automatic with gain with control\$4 or aqc) same (bandwidth) same (phase) same correlat\$4	US-PGPUB; USPAT; USOCR; EPO; JPO	AND	OFF	2007/05/02 15:06
S10	14172155	@ad<="20040130"	US-PGPUB; USPAT; USOCR; EPO; JPO	AND	OFF	2007/05/06 15:13
S11	20	S8 S10	US-PGPUB; USPAT; USOCR; EPO; JPO	AND	OFF	2007/05/02 15:07
S12	38	S9 S10	US-PGPUB; USPAT; USOCR; EPO; JPO	AND	OFF	2007/05/02 15:09
S13	18	(plurality or multiple or several or many) adj4 (amplif\$4) same (bandwidth with adjust\$4) same control\$4	US-PGPUB; USPAT; USOCR; EPO; JPO	AND	OFF	2007/05/02 15:13
S14	2539	(plurality or multiple or several or many) adj4 (amplif\$4) same (gain or bandwidth) with (adjust\$4 or control\$4)	US-PGPUB; USPAT; USOCR; EPO; JPO	AND	OFF	2007/05/02 15:21
S16	1456	S14 S10	US-PGPUB; USPAT; USOCR; EPO; JPO	AND	OFF	2007/05/02 15:14
S17	68674	(delay\$4) same (flip adj4 flop or latch\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO	AND	OFF	2007/05/02 15:21
S18	11952	(delay\$4) same (flip adj4 flop or latch\$3) same phase	US-PGPUB; USPAT; USOCR; EPO; JPO	AND	OFF	2007/05/02 15:15

EAST Search History

S19	5	S18 S16	US-PGPUB; USPAT; USOCR; EPO; JPO	AND	OFF	2007/05/02 15:17
S20	11952	S18 S17	US-PGPUB; USPAT; USOCR; EPO; JPO	AND	OFF	2007/05/02 15:17
S21	22	S16 S17	US-PGPUB; USPAT; USOCR; EPO; JPO	AND	OFF	2007/05/02 15:18
S22	88692	(amplif\$4) same (gain or bandwidth) with (adjust\$4 or control\$4)	US-PGPUB; USPAT; USOCR; EPO; JPO	AND	OFF	2007/05/02 15:21
S23	4242	(plurality or multiple or many or several) adj4 (phase\$3 or delay\$3) same (flip adj4 flop or latch\$3 or correlat\$4 or autocorrelat\$4)	US-PGPUB; USPAT; USOCR; EPO; JPO	AND	OFF	2007/05/02 15:22
S24	3	S23 S14 S10	US-PGPUB; USPAT; USOCR; EPO; JPO	AND	OFF	2007/05/02 15:24
S25	181	S22 S23 S10	US-PGPUB; USPAT; USOCR; EPO; JPO	AND	OFF	2007/05/02 15:26
S26	5614	(automatic with gain with control\$4).ab.	US-PGPUB; USPAT; USOCR; EPO; JPO	AND	OFF	2007/05/03 08:52
S27	5214	S26 S10	US-PGPUB; USPAT; USOCR; EPO; JPO	AND	OFF	2007/05/02 15:33
S28	69113	control\$4 same (phase or delay\$3) same (correlat\$4 or flip adj4 flop\$3 or autocorrelat\$4 or latch\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO	AND	OFF	2007/05/02 15:34
S29	143	S28 S27	US-PGPUB; USPAT; USOCR; EPO; JPO	AND	OFF	2007/05/02 15:39
S30	20	S29 (plurality or multiple or several or many) with (amplif\$4)	US-PGPUB; USPAT; USOCR; EPO; JPO	AND	OFF	2007/05/02 15:40

EAST Search History

S57	211252	(control\$4 or adjust\$4) with (bandwidth or gain)	US-PGPUB; USPAT; USOCR; EPO; JPO	AND	OFF	2007/05/03 09:14
S58	219	S56 S57	US-PGPUB; USPAT; USOCR; EPO; JPO	AND	OFF	2007/05/03 09:15
S59	7	("4429285" "5134401" "5144311" "5146223" "5363102" "5541600" "5691720").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO	AND	OFF	2007/05/03 10:19
S60	1	gain with control same data adj rate	US-PGPUB; USPAT; USOCR; EPO; JPO	AND	OFF	2007/05/03 10:19
S61	578	gain with control same data adj rate	US-PGPUB; USPAT; USOCR; EPO; JPO	AND	OFF	2007/05/03 10:20
S62	25	bandwidth with control same data adj rate same amplifier	US-PGPUB; USPAT; USOCR; EPO; JPO	AND	OFF	2007/05/03 10:20
S63	70	iphone	US-PGPUB; USPAT; USOCR; EPO; JPO	AND	OFF	2007/05/03 11:01
S69	0	"5892472".pn. and data adj rate	US-PGPUB; USPAT; USOCR; EPO; JPO	AND	OFF	2007/05/03 15:02
S70	0	"5892472".pn. and data adj rate	US-PGPUB; USPAT; USOCR; EPO; JPO	AND	OFF	2007/05/03 15:02
S71	0	"5892472".pn. and data with rate	US-PGPUB; USPAT; USOCR; EPO; JPO	AND	OFF	2007/05/03 15:02
S72	1	"5892472".pn. and adc with rate	US-PGPUB; USPAT; USOCR; EPO; JPO	AND	OFF	2007/05/03 15:02
S73	8514	amplif\$4 with (automatic or adjust\$4 or control\$4) and (phase or delay or phase with delay or phase with shift\$4) same (correlat\$4 or autocorrelat\$4 or auto adj\$4 correlat\$4)	US-PGPUB; USPAT; USOCR; EPO; JPO	AND	OFF	2007/05/03 16:07

5/12/2007 10:39:42 AM

C:\Documents and Settings\hwong\My Documents\EAST\Workspaces\10821349_1a.wsp

Page 5

EAST Search History

S74	14172245	@ad<="20040130"	US-PGPUB; USPAT; USOCR; EPO; JPO	AND	OFF	2007/05/03 16:05
S75	5676	S73 S74	US-PGPUB; USPAT; USOCR; EPO; JPO	AND	OFF	2007/05/03 16:05
S76	4148	amplif\$4 with (automatic or adjust\$4 or control\$4) and (phase or delay or phase with delay or phase with shift\$4) same (correlat\$4 or autocorrelat\$4 or auto adj\$4 correlat\$4) same control\$4	US-PGPUB; USPAT; USOCR; EPO; JPO	AND	OFF	2007/05/03 16:06
S77	2030	amplif\$4 with (automatic or adjust\$4 or control\$4) and (phase or delay or phase with delay or phase with shift\$4) same (correlat\$4 or autocorrelat\$4 or auto adj\$4 correlat\$4) same control\$4 same amplif\$4	US-PGPUB; USPAT; USOCR; EPO; JPO	AND	OFF	2007/05/03 16:07
S78	16974	(bandwidth) same data adj\$4 rate	US-PGPUB; USPAT; USOCR; EPO; JPO	AND	OFF	2007/05/03 16:07
S79	19649	(bandwidth) same data near\$4 (rate or rating)	US-PGPUB; USPAT; USOCR; EPO; JPO	AND	OFF	2007/05/03 16:08
S80	336	S79 S73 S74	US-PGPUB; USPAT; USOCR; EPO; JPO	AND	OFF	2007/05/03 16:23
S81	61	S77 S74 S78	US-PGPUB; USPAT; USOCR; EPO; JPO	AND	OFF	2007/05/03 21:34
S82	97	data adj rate with detect\$4 same phase with shift\$4	US-PGPUB; USPAT; USOCR; EPO; JPO	AND	OFF	2007/05/03 21:36
S83	345131	amplif\$4 with (control\$4 or adjust\$4 or modif\$4)	US-PGPUB; USPAT; USOCR; EPO; JPO	AND	OFF	2007/05/03 21:39
S84	10	S82 S83	US-PGPUB; USPAT; USOCR; EPO; JPO	AND	OFF	2007/05/03 21:35

5/12/2007 10:39:42 AM

C:\Documents and Settings\hwong\My Documents\EAST\Workspaces\10821349_1a.wsp

Page 6

EAST Search History

S85	353296	phase same (compar\$4 or flip adj4 flop or latch\$4 or synchron\$7)	US-PGPUB; USPAT; USOCR; EPO; JPO	AND	OFF	2007/05/03 21:39
S86	14172245	@ad<="20040130"	US-PGPUB; USPAT; USOCR; EPO; JPO	AND	OFF	2007/05/03 21:38
S87	38911	S83 S85 S86	US-PGPUB; USPAT; USOCR; EPO; JPO	AND	OFF	2007/05/03 21:38
S88	347315	amplif\$4 with (control\$4 or adjust\$4 or modif\$4 or automatic)	US-PGPUB; USPAT; USOCR; EPO; JPO	AND	OFF	2007/05/03 21:39
S89	199289	phase with (compar\$4 or flip adj4 flop or latch\$4 or synchron\$7)	US-PGPUB; USPAT; USOCR; EPO; JPO	AND	OFF	2007/05/03 21:42
S90	7268	S88 same S89 S86	US-PGPUB; USPAT; USOCR; EPO; JPO	AND	OFF	2007/05/03 21:40
S91	30308	phase with (compar\$4 or flip adj4 flop or latch\$4 or synchron\$7) same amplif\$4	US-PGPUB; USPAT; USOCR; EPO; JPO	AND	OFF	2007/05/04 11:02
S93	54935	bandwidth same rate	US-PGPUB; USPAT; USOCR; EPO; JPO	AND	OFF	2007/05/03 21:43
S94	78	S88 same S93 S91 S86	US-PGPUB; USPAT; USOCR; EPO; JPO	AND	OFF	2007/05/03 21:43
S95	9472	(phase with shift\$4) with (data or input) same (compar\$4 or flip adj4 flop or latch\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO	AND	OFF	2007/05/04 11:04
S96	13292	amplif\$4 same bandwidth same (control\$4 or adjust\$4)	US-PGPUB; USPAT; USOCR; EPO; JPO	AND	OFF	2007/05/04 11:04
S97	14172245	@ad<="20040130"	US-PGPUB; USPAT; USOCR; EPO; JPO	AND	OFF	2007/05/04 11:04

EAST Search History

S98	14172245	S97	US-PGPUB; USPAT; USOCR; EPO; JPO	AND	OFF	2007/05/04 11:05
S99	157	S95 S96 S97	US-PGPUB; USPAT; USOCR; EPO; JPO	AND	OFF	2007/05/04 11:10
S10 0	9	amplif\$4 with control\$4 same (plurality or multiple or many or several) adj4 (delay\$3) same (plurality or multiple or many or several) adj4 (flip adj4 flop\$3 or latch\$3 or compar\$4)	US-PGPUB; USPAT; USOCR; EPO; JPO	AND	OFF	2007/05/04 14:44
S10 1	10	("20030086303" "20040210809" "5467313" "5703815" "5724287" "5917761" "5949697" "6166973" "6650575" "6665218").PN.	US-PGPUB; USPAT; USOCR	AND	OFF	2007/05/04 11:12
S10 2	0	("2007/0008793").URPN.	USPAT	AND	OFF	2007/05/04 11:14
S10 3	66	amplif\$4 with control\$4 and (plurality or multiple or many or several) adj4 (delay\$3) same (plurality or multiple or many or several) adj4 (flip adj4 flop\$3 or latch\$3 or compar\$4)	US-PGPUB; USPAT; USOCR; EPO; JPO	AND	OFF	2007/05/06 15:12
S10 4	14172245	@ad<="20040130"	US-PGPUB; USPAT; USOCR; EPO; JPO	AND	OFF	2007/05/04 14:46
S10 5	39	S103 S104	US-PGPUB; USPAT; USOCR; EPO; JPO	AND	OFF	2007/05/04 14:46
S10 6	29884	amplif\$4 with control\$4 and (delay\$3 or phase with shift\$4) same compar\$4	US-PGPUB; USPAT; USOCR; EPO; JPO	AND	OFF	2007/05/06 15:14
S10 7	14171937	@ad<="20040130"	US-PGPUB; USPAT; USOCR; EPO; JPO	AND	OFF	2007/05/06 15:14
S10 8	19528	S106 S107	US-PGPUB; USPAT; USOCR; EPO; JPO	AND	OFF	2007/05/06 15:14

EAST Search History

S10 9	8026	amplif\$4 with control\$4 same (delay\$3 or phase with shift\$4 or shift adj4 register\$3) same compa\$4	US-PGPUB; USPAT; USOCR; EPO; JPO	AND	OFF	2007/05/06 15:17
S11 0	3466	S109 S107	US-PGPUB; USPAT; USOCR; EPO; JPO	AND	OFF	2007/05/06 15:15
S11 1	9459	amplif\$4 with control\$4 same (delay\$3 or phase with shift\$4 or shift adj4 register\$3) same (flip adj4 flop or compa\$4)	US-PGPUB; USPAT; USOCR; EPO; JPO	AND	OFF	2007/05/06 15:26
S11 2	4002	S111 S107	US-PGPUB; USPAT; USOCR; EPO; JPO	AND	OFF	2007/05/06 15:21
S11 3	65380	power adj amplif\$4	US-PGPUB; USPAT; USOCR; EPO; JPO	AND	OFF	2007/05/06 15:21
S11 4	524	S112 S113	US-PGPUB; USPAT; USOCR; EPO; JPO	AND	OFF	2007/05/06 15:26
S11 5	10624	amplif\$4 with (adjust\$4 or control\$4) same (delay\$3 or phase with shift\$4 or shift adj4 register\$3) same (flip adj4 flop or compa\$4)	US-PGPUB; USPAT; USOCR; EPO; JPO	AND	OFF	2007/05/06 17:28
S11 6	593	S115 S107 S113	US-PGPUB; USPAT; USOCR; EPO; JPO	AND	OFF	2007/05/06 15:27
S11 7	11287	amplif\$4 with (adjust\$4 or control\$4) same (delay\$3 or phase with shift\$4 or shift adj4 register\$3) same (flip adj4 flop or compa\$4 or autocorrelat\$4 or correlat\$4 or auto adj2 correlat\$4)	US-PGPUB; USPAT; USOCR; EPO; JPO	AND	OFF	2007/05/06 17:30
S11 8	11287	amplif\$4 with (adjust\$4 or control\$4) same (delay\$3 or phase with shift\$4 or shift adj4 register\$3) same (flip adj4 flop or compa\$4 or autocorrelat\$4 or correlat\$4 or auto adj2 correlat\$4) same amplif\$4	US-PGPUB; USPAT; USOCR; EPO; JPO	AND	OFF	2007/05/06 18:59
S11 9	678	S118 S107 S113	US-PGPUB; USPAT; USOCR; EPO; JPO	AND	OFF	2007/05/06 19:01

EAST Search History

S12 0	796	amplif\$4 with (adjust\$4 or control\$4) same (plurality or multiple or several or many) with (delay\$3 or phase with shift\$4 or shift adj4 register\$3) same (flip adj4 flop or compa\$4 or autocorrelat\$4 or correlat\$4 or auto adj2 correlat\$4) same amplif\$4	US-PGPUB; USPAT; USOCR; EPO; JPO	AND	OFF	2007/05/06 18:59
S12 1	31	S120 S107 S113	US-PGPUB; USPAT; USOCR; EPO; JPO	AND	OFF	2007/05/06 19:13
S12 2	15962	(phase with shift\$4 or delay\$3) same (amplified or output with amplifier) same (compa\$4 or autocorrelat\$4 or auto adj4 correlat\$4)	US-PGPUB; USPAT; USOCR; EPO; JPO	AND	OFF	2007/05/06 19:14
S12 3	16677	(phase with shift\$4 or delay\$3 or shift adj4 register) same (amplified or output with amplifier) same (compa\$4 or autocorrelat\$4 or auto adj4 correlat\$4)	US-PGPUB; USPAT; USOCR; EPO; JPO	AND	OFF	2007/05/06 19:31
S12 4	43946	power adj4 amplifier same (control\$4 or adjust\$4)	US-PGPUB; USPAT; USOCR; EPO; JPO	AND	OFF	2007/05/06 19:15
S12 5	1813	S124 S123	US-PGPUB; USPAT; USOCR; EPO; JPO	AND	OFF	2007/05/06 19:15
S12 6	852	S125 S107	US-PGPUB; USPAT; USOCR; EPO; JPO	AND	OFF	2007/05/06 19:16
S12 7	6722	(phase with shift\$4 or shift adj4 register) same (amplified or output with amplifier) same (compa\$4 or autocorrelat\$4 or auto adj4 correlat\$4)	US-PGPUB; USPAT; USOCR; EPO; JPO	AND	OFF	2007/05/06 20:15
S12 8	347	S127 S124 S107	US-PGPUB; USPAT; USOCR; EPO; JPO	AND	OFF	2007/05/06 19:32
S12 9	2242	bandwidth with (adjust\$4 or control\$4) with (amplifier)	US-PGPUB; USPAT; USOCR; EPO; JPO	AND	OFF	2007/05/06 19:32

EAST Search History

S13 0	6	S128 "247"	US-PGPUB; USPAT; USOCR; EPO; JPO	AND	OFF	2007/05/06 19:32
S13 1	17	S128 S129	US-PGPUB; USPAT; USOCR; EPO; JPO	AND	OFF	2007/05/06 20:34
S13 2	6	data adj rate adj detect\$4 same phase same (compar\$4 or correlat\$4 or autotcorrelat\$4 or auto adj3 correlat\$4)	US-PGPUB; USPAT; USOCR; EPO; JPO	AND	OFF	2007/05/06 20:33
S13 3	3721	switch with (noise or interference) with amplifier	US-PGPUB; USPAT; USOCR; EPO; JPO	AND	OFF	2007/05/06 20:42
S13 4	35	S133 S107 S129	US-PGPUB; USPAT; USOCR; EPO; JPO	AND	OFF	2007/05/06 20:43
S13 5	3731	(state adj machine or switch) with (noise or interference) with amplifier	US-PGPUB; USPAT; USOCR; EPO; JPO	AND	OFF	2007/05/06 20:42
S13 6	35	S135 S107 S129	US-PGPUB; USPAT; USOCR; EPO; JPO	AND	OFF	2007/05/06 20:43
S13 7	62	(schrodinger-kart).in.	US-PGPUB; USPAT; USOCR; EPO; JPO	AND	OFF	2007/05/11 15:07
S13 8	3570	switch with noise with amplifier	US-PGPUB; USPAT; USOCR; EPO; JPO	AND	OFF	2007/05/11 15:13

EAST Search History

Ref #	Hits	Search Query	Dbs	Default Operator	Plurals	Time Stamp
S7	500	(automatic with gain with control\$4) same (bandwidth) same (phase)	US-PGPUB; USPAT; USOCR; EPO; JPO	AND	OFF	2007/05/02 15:05
S8	32	(automatic with gain with control\$4) same (bandwidth) same (phase) same correlat\$4	US-PGPUB; USPAT; USOCR; EPO; JPO	AND	OFF	2007/05/02 15:06
S9	63	(automatic with gain with control\$4 or agc) same (bandwidth) same (phase) same correlat\$4	US-PGPUB; USPAT; USOCR; EPO; JPO	AND	OFF	2007/05/02 15:06
S10	14172155	@ad<="20040130"	US-PGPUB; USPAT; USOCR; EPO; JPO	AND	OFF	2007/05/06 15:13
S11	20	S8 S10	US-PGPUB; USPAT; USOCR; EPO; JPO	AND	OFF	2007/05/02 15:07
S12	38	S9 S10	US-PGPUB; USPAT; USOCR; EPO; JPO	AND	OFF	2007/05/02 15:09
S13	18	(plurality or multiple or several or many) adj4 (amplif\$4) same bandwidth with adjust\$4 same control\$4	US-PGPUB; USPAT; USOCR; EPO; JPO	AND	OFF	2007/05/02 15:13
S14	2539	(plurality or multiple or several or many) adj4 (amplif\$4) same (gain or bandwidth) with (adjust\$4 or control\$4)	US-PGPUB; USPAT; USOCR; EPO; JPO	AND	OFF	2007/05/02 15:21
S16	1456	S14 S10	US-PGPUB; USPAT; USOCR; EPO; JPO	AND	OFF	2007/05/02 15:14
S17	68674	(delay\$4) same (flip adj4 flop or latch\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO	AND	OFF	2007/05/02 15:21
S18	11952	(delay\$4) same (flip adj4 flop or latch\$3) same phase	US-PGPUB; USPAT; USOCR; EPO; JPO	AND	OFF	2007/05/02 15:15

EAST Search History

S19	5	S18 S16	US-PGPUB; USPAT; USOCR; EPO; JPO	AND	OFF	2007/05/02 15:17
S20	11952	S18 S17	US-PGPUB; USPAT; USOCR; EPO; JPO	AND	OFF	2007/05/02 15:17
S21	22	S16 S17	US-PGPUB; USPAT; USOCR; EPO; JPO	AND	OFF	2007/05/02 15:18
S22	88692	(amplif\$4) same (gain or bandwidth) with (adjust\$4 or control\$4)	US-PGPUB; USPAT; USOCR; EPO; JPO	AND	OFF	2007/05/02 15:21
S23	4242	(plurality or multiple or many or several) adj4 (phase\$3 or delay\$3) same (flip adj4 flop or latch\$3 or correlat\$4 or autocorrelat\$4)	US-PGPUB; USPAT; USOCR; EPO; JPO	AND	OFF	2007/05/02 15:22
S24	3	S23 S14 S10	US-PGPUB; USPAT; USOCR; EPO; JPO	AND	OFF	2007/05/02 15:24
S25	181	S22 S23 S10	US-PGPUB; USPAT; USOCR; EPO; JPO	AND	OFF	2007/05/02 15:26
S26	5614	(automatic with gain with control\$4).ab.	US-PGPUB; USPAT; USOCR; EPO; JPO	AND	OFF	2007/05/03 08:52
S27	5214	S26 S10	US-PGPUB; USPAT; USOCR; EPO; JPO	AND	OFF	2007/05/02 15:33
S28	69113	control\$4 same (phase or delay\$3) same (correlat\$4 or flip adj4 flop\$3 or autocorrelat\$4 or latch\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO	AND	OFF	2007/05/02 15:34
S29	143	S28 S27	US-PGPUB; USPAT; USOCR; EPO; JPO	AND	OFF	2007/05/02 15:39
S30	20	S29 (plurality or multiple or several or many) with (amplif\$4)	US-PGPUB; USPAT; USOCR; EPO; JPO	AND	OFF	2007/05/02 15:40

EAST Search History

S31	7	("4429285" "5134401" "5144311" "5146223" "5363102" "5541600" "5691720").PN.	US-PGPUB; USPAT; USOCR	AND	OFF	2007/05/02 16:07
S32	15539	((adjust\$4 or control\$4) with (gain or bandwidth)).ab.	US-PGPUB; USPAT; USOCR	AND	OFF	2007/05/02 16:08
S33	45485	((adjust\$4 or control\$4) with (gain or bandwidth)).ab.	US-PGPUB; USPAT; USOCR; EPO; JPO	AND	OFF	2007/05/02 16:11
S34	57269	(phase adj4 shift\$4 or shift adj4 register or delay\$3) with (data or input) same (correlat\$4 or autocorrelat\$4 or flip adj4 flop\$3 or latch\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO	AND	OFF	2007/05/02 16:23
S35	1523293	"82"	US-PGPUB; USPAT; USOCR; EPO; JPO	AND	OFF	2007/05/02 16:10
S36	6	("200500464" or ("20050052248" or ("6933789" or ("6943630" or ("20020141022" or ("4608542" or ("5864416")).PN.	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2007/05/02 16:10
S37	446	S33 S34 S10	US-PGPUB; USPAT; USOCR; EPO; JPO	AND	OFF	2007/05/02 16:11
S38	9972	(phase adj4 shift\$4 or shift adj4 register or delay\$3) with (data or input) same (correlat\$4 or autocorrelat\$4)	US-PGPUB; USPAT; USOCR; EPO; JPO	AND	OFF	2007/05/02 16:24
S39	19650	(phase adj4 shift\$4 or shift adj4 register or delay\$3) with (correlat\$4 or autocorrelat\$4)	US-PGPUB; USPAT; USOCR; EPO; JPO	AND	OFF	2007/05/02 16:24
S40	283	S39 S33 S10	US-PGPUB; USPAT; USOCR; EPO; JPO	AND	OFF	2007/05/02 16:54
S41	70356	(amplif\$4) with (gain or bandwidth) with (adjust\$4 or control\$4)	US-PGPUB; USPAT; USOCR; EPO; JPO	AND	OFF	2007/05/02 16:55
S42	4484	(phase or delay\$4) with (correlat\$4 or autocorrelat\$4 or auto adj3 correlat\$4) with (input)	US-PGPUB; USPAT; USOCR; EPO; JPO	AND	OFF	2007/05/02 16:57

EAST Search History

S43	372	S41 S42 S10	US-PGPUB; USPAT; USOCR; EPO; JPO	AND	OFF	2007/05/02 16:57
S44	16587	(375/344-345,362,371,373).ccds. or (455/68,71,67,16,67,11,136,138,139,232,1,234,1,240,1,241,1,245,1,253,2,250,1).ccds. or (330/254,278,280,295,84-85).ccds.	US-PGPUB; USPAT; USOCR; EPO; JPO	AND	OFF	2007/05/02 17:57
S45	5405	(bandwidth or gain) same (phase or delay\$2) same (auto adj4 correlat\$4 or correlat\$4 or autocorrelat\$4)	US-PGPUB; USPAT; USOCR; EPO; JPO	AND	OFF	2007/05/02 17:59
S46	148	S44 S45 S10	US-PGPUB; USPAT; USOCR; EPO; JPO	AND	OFF	2007/05/02 18:00
S47	5616	(automatic with gain with control\$4).ab.	US-PGPUB; USPAT; USOCR; EPO; JPO	AND	OFF	2007/05/03 08:52
S49	14172245	@ad<="20040130"	US-PGPUB; USPAT; USOCR; EPO; JPO	AND	OFF	2007/05/03 08:52
S51	1313	(control\$4 or adjust\$4) with (bandwidth or gain) with (data adj4 rate)	US-PGPUB; USPAT; USOCR; EPO; JPO	AND	OFF	2007/05/03 08:57
S52	21	S47 S49 S51	US-PGPUB; USPAT; USOCR; EPO; JPO	AND	OFF	2007/05/03 08:54
S53	3698	(control\$4 or adjust\$4) with (bandwidth or gain) same (data near4 rate)	US-PGPUB; USPAT; USOCR; EPO; JPO	AND	OFF	2007/05/03 09:13
S54	66	S47 S53 S49	US-PGPUB; USPAT; USOCR; EPO; JPO	AND	OFF	2007/05/03 09:13
S55	537	amplif\$4 same bandwidth same data adj rate	US-PGPUB; USPAT; USOCR; EPO; JPO	AND	OFF	2007/05/03 09:13
S56	409	S55 S49	US-PGPUB; USPAT; USOCR; EPO; JPO	AND	OFF	2007/05/03 09:51

EAST Search History

S57	211252	(control\$4 or adjust\$4) with (bandwidth or gain)	US-PGPUB; USPAT; USOCR; EPO; JPO	AND	OFF	2007/05/03 09:14
S58	219	S56 S57	US-PGPUB; USPAT; USOCR; EPO; JPO	AND	OFF	2007/05/03 09:15
S59	7	("4429285" "5134401" "5144311" "5146223" "5363102" "5541600" "5691720").PN.	US-PGPUB; USPAT; USOCR	AND	OFF	2007/05/03 10:19
S60	1	gain with control same data adj rate	US-PGPUB; USPAT; USOCR; EPO; JPO	AND	OFF	2007/05/03 10:19
S61	578	gain with control same data adj rate	US-PGPUB; USPAT; USOCR; EPO; JPO	AND	OFF	2007/05/03 10:20
S62	25	bandwidth with control same data adj rate same amplifier	US-PGPUB; USPAT; USOCR; EPO; JPO	AND	OFF	2007/05/03 10:20
S63	70	iphone	US-PGPUB; USPAT; USOCR; EPO; JPO	AND	OFF	2007/05/03 11:01
S69	0	"5892472".pn. and data adj rate	US-PGPUB; USPAT; USOCR; EPO; JPO	AND	OFF	2007/05/03 15:02
S70	0	"5892472".pn. and data adj rate	US-PGPUB; USPAT; USOCR; EPO; JPO	AND	OFF	2007/05/03 15:02
S71	0	"5892472".pn. and data with rate	US-PGPUB; USPAT; USOCR; EPO; JPO	AND	OFF	2007/05/03 15:02
S72	1	"5892472".pn. and adc with rate	US-PGPUB; USPAT; USOCR; EPO; JPO	AND	OFF	2007/05/03 15:02
S73	8514	amplif\$4 with (automatic or adjust\$4 or control\$4) and (phase or delay or phase with delay or phase with shift\$4) same (correlat\$4 or autocorrelat\$4 or auto adj4 correlat\$4)	US-PGPUB; USPAT; USOCR; EPO; JPO	AND	OFF	2007/05/03 16:07

5/12/2007 10:43:46 AM
C:\Documents and Settings\jwong\My Documents\EAST\Workspaces\10821349_1.wsp

Page 5

EAST Search History

S74	14172245	@ad<="20040130"	US-PGPUB; USPAT; USOCR; EPO; JPO	AND	OFF	2007/05/03 16:05
S75	5676	S73 S74	US-PGPUB; USPAT; USOCR; EPO; JPO	AND	OFF	2007/05/03 16:05
S76	4148	amplif\$4 with (automatic or adjust\$4 or control\$4) and (phase or delay or phase with delay or phase with shift\$4) same (correlat\$4 or autocorrelat\$4 or auto adj4 correlat\$4) same control\$4	US-PGPUB; USPAT; USOCR; EPO; JPO	AND	OFF	2007/05/03 16:06
S77	2030	amplif\$4 with (automatic or adjust\$4 or control\$4) and (phase or delay or phase with delay or phase with shift\$4) same (correlat\$4 or autocorrelat\$4 or auto adj4 correlat\$4) same control\$4 same amplif\$4	US-PGPUB; USPAT; USOCR; EPO; JPO	AND	OFF	2007/05/03 16:07
S78	16974	(bandwidth) same data adj4 rate	US-PGPUB; USPAT; USOCR; EPO; JPO	AND	OFF	2007/05/03 16:07
S79	19649	(bandwidth) same data near4 (rate or rating)	US-PGPUB; USPAT; USOCR; EPO; JPO	AND	OFF	2007/05/03 16:08
S80	336	S79 S73 S74	US-PGPUB; USPAT; USOCR; EPO; JPO	AND	OFF	2007/05/03 16:23
S81	61	S77 S74 S78	US-PGPUB; USPAT; USOCR; EPO; JPO	AND	OFF	2007/05/03 21:34
S82	97	data adj rate with detect\$4 same phase with shift\$4	US-PGPUB; USPAT; USOCR; EPO; JPO	AND	OFF	2007/05/03 21:36
S83	345131	amplif\$4 with (control\$4 or adjust\$4 or modif\$4)	US-PGPUB; USPAT; USOCR; EPO; JPO	AND	OFF	2007/05/03 21:39
S84	10	S82 S83	US-PGPUB; USPAT; USOCR; EPO; JPO	AND	OFF	2007/05/03 21:35

5/12/2007 10:43:46 AM
C:\Documents and Settings\jwong\My Documents\EAST\Workspaces\10821349_1.wsp

Page 6

EAST Search History

S85	353296	phase same (compar\$4 or flip adj4 flop or latch\$4 or synchron\$7)	US-PGPUB; USPAT; USOCR; EPO; JPO	AND	OFF	2007/05/03 21:39
S86	14172245	@ad<="20040130"	US-PGPUB; USPAT; USOCR; EPO; JPO	AND	OFF	2007/05/03 21:38
S87	38911	S83 S85 S86	US-PGPUB; USPAT; USOCR; EPO; JPO	AND	OFF	2007/05/03 21:38
S88	347315	amplif\$4 with (control\$4 or adjust\$4 or modif\$4 or automatic)	US-PGPUB; USPAT; USOCR; EPO; JPO	AND	OFF	2007/05/03 21:39
S89	199289	phase with (compar\$4 or flip adj4 flop or latch\$4 or synchron\$7)	US-PGPUB; USPAT; USOCR; EPO; JPO	AND	OFF	2007/05/03 21:42
S90	7268	S88 same S89 S86	US-PGPUB; USPAT; USOCR; EPO; JPO	AND	OFF	2007/05/03 21:40
S91	30308	phase with (compar\$4 or flip adj4 flop or latch\$4 or synchron\$7) same amplif\$4	US-PGPUB; USPAT; USOCR; EPO; JPO	AND	OFF	2007/05/04 11:02
S93	54935	bandwidth same rate	US-PGPUB; USPAT; USOCR; EPO; JPO	AND	OFF	2007/05/03 21:43
S94	78	S88 same S93 S91 S86	US-PGPUB; USPAT; USOCR; EPO; JPO	AND	OFF	2007/05/03 21:43
S95	9472	(phase with shift\$4) with (data or input) same (compar\$4 or flip adj4 flop or latch\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO	AND	OFF	2007/05/04 11:04
S96	13292	amplif\$4 same bandwidth same (control\$4 or adjust\$4)	US-PGPUB; USPAT; USOCR; EPO; JPO	AND	OFF	2007/05/04 11:04
S97	14172245	@ad<="20040130"	US-PGPUB; USPAT; USOCR; EPO; JPO	AND	OFF	2007/05/04 11:04

5/12/2007 10:43:46 AM
C:\Documents and Settings\jwong\My Documents\EAST\Workspaces\10821349_1.wsp

Page 7

EAST Search History

S98	14172245	S97	US-PGPUB; USPAT; USOCR; EPO; JPO	AND	OFF	2007/05/04 11:05
S99	157	S95 S96 S97	US-PGPUB; USPAT; USOCR; EPO; JPO	AND	OFF	2007/05/04 11:10
S100	9	amplif\$4 with control\$4 same (plurality or multiple or many or several) adj4 (delay\$3) same (plurality or multiple or many or several) adj4 (flip adj4 flop\$3 or latch\$3 or compar\$4)	US-PGPUB; USPAT; USOCR; EPO; JPO	AND	OFF	2007/05/04 14:44
S101	10	("20030086303" "20040210809" "5467313" "5703815" "5724287" "5917761" "5949697" "6166973" "6650575" "6665218").PN.	US-PGPUB; USPAT; USOCR	AND	OFF	2007/05/04 11:12
S102	0	("2007/0008793").URPN.	USPAT	AND	OFF	2007/05/04 11:14
S103	66	amplif\$4 with control\$4 and (plurality or multiple or many or several) adj4 (delay\$3) same (plurality or multiple or many or several) adj4 (flip adj4 flop\$3 or latch\$3 or compar\$4)	US-PGPUB; USPAT; USOCR; EPO; JPO	AND	OFF	2007/05/06 15:12
S104	14172245	@ad<="20040130"	US-PGPUB; USPAT; USOCR; EPO; JPO	AND	OFF	2007/05/04 14:46
S105	39	S103 S104	US-PGPUB; USPAT; USOCR; EPO; JPO	AND	OFF	2007/05/04 14:46
S106	29884	amplif\$4 with control\$4 and (delay\$3 or phase with shift\$4) same compar\$4	US-PGPUB; USPAT; USOCR; EPO; JPO	AND	OFF	2007/05/06 15:14
S107	14171937	@ad<="20040130"	US-PGPUB; USPAT; USOCR; EPO; JPO	AND	OFF	2007/05/06 15:14
S108	19528	S106 S107	US-PGPUB; USPAT; USOCR; EPO; JPO	AND	OFF	2007/05/06 15:14

5/12/2007 10:43:46 AM
C:\Documents and Settings\jwong\My Documents\EAST\Workspaces\10821349_1.wsp

Page 8

EAST Search History

S10 9	8026	amplif\$4 with control\$4 same (delay\$3 or phase with shift\$4 or shift adj4 register\$3) same compar\$4	US-PGPUB; USPAT; USOCR; EPO; JPO	AND	OFF	2007/05/06 15:17
S11 0	3466	S109 S107	US-PGPUB; USPAT; USOCR; EPO; JPO	AND	OFF	2007/05/06 15:15
S11 1	9459	amplif\$4 with control\$4 same (delay\$3 or phase with shift\$4 or shift adj4 register\$3) same (flip adj4 flop or compar\$4)	US-PGPUB; USPAT; USOCR; EPO; JPO	AND	OFF	2007/05/06 15:26
S11 2	4002	S111 S107	US-PGPUB; USPAT; USOCR; EPO; JPO	AND	OFF	2007/05/06 15:21
S11 3	65380	power adj amplif\$4	US-PGPUB; USPAT; USOCR; EPO; JPO	AND	OFF	2007/05/06 15:21
S11 4	524	S112 S113	US-PGPUB; USPAT; USOCR; EPO; JPO	AND	OFF	2007/05/06 15:26
S11 5	10624	amplif\$4 with (adjust\$4 or control\$4) same (delay\$3 or phase with shift\$4 or shift adj4 register\$3) same (flip adj4 flop or compar\$4)	US-PGPUB; USPAT; USOCR; EPO; JPO	AND	OFF	2007/05/06 17:28
S11 6	593	S115 S107 S113	US-PGPUB; USPAT; USOCR; EPO; JPO	AND	OFF	2007/05/06 15:27
S11 7	11287	amplif\$4 with (adjust\$4 or control\$4) same (delay\$3 or phase with shift\$4 or shift adj4 register\$3) same (flip adj4 flop or compar\$4 or autocorrelat\$4 or correlat\$4 or auto adj2 correlat\$4)	US-PGPUB; USPAT; USOCR; EPO; JPO	AND	OFF	2007/05/06 17:30
S11 8	11287	amplif\$4 with (adjust\$4 or control\$4) same (delay\$3 or phase with shift\$4 or shift adj4 register\$3) same (flip adj4 flop or compar\$4 or autocorrelat\$4 or correlat\$4 or auto adj2 correlat\$4) same amplif\$4	US-PGPUB; USPAT; USOCR; EPO; JPO	AND	OFF	2007/05/06 18:59
S11 9	678	S118 S107 S113	US-PGPUB; USPAT; USOCR; EPO; JPO	AND	OFF	2007/05/06 19:01

EAST Search History

S12 0	796	amplif\$4 with (adjust\$4 or control\$4) same (plurality or multiple or several or many) with (delay\$3 or phase with shift\$4 or shift adj4 register\$3) same (flip adj4 flop or compar\$4 or autocorrelat\$4 or correlat\$4 or auto adj2 correlat\$4) same amplif\$4	US-PGPUB; USPAT; USOCR; EPO; JPO	AND	OFF	2007/05/06 18:59
S12 1	31	S120 S107 S113	US-PGPUB; USPAT; USOCR; EPO; JPO	AND	OFF	2007/05/06 19:13
S12 2	15962	(phase with shift\$4 or delay\$3) same (amplified or output with amplifier) same (compar\$4 or autocorrelat\$4 or auto adj4 correlat\$4)	US-PGPUB; USPAT; USOCR; EPO; JPO	AND	OFF	2007/05/06 19:14
S12 3	16677	(phase with shift\$4 or delay\$3 or shift adj4 register) same (amplified or output with amplifier) same (compar\$4 or autocorrelat\$4 or auto adj4 correlat\$4)	US-PGPUB; USPAT; USOCR; EPO; JPO	AND	OFF	2007/05/06 19:31
S12 4	43946	power adj4 amplifier same (control\$4 or adjust\$4)	US-PGPUB; USPAT; USOCR; EPO; JPO	AND	OFF	2007/05/06 19:15
S12 5	1813	S124 S123	US-PGPUB; USPAT; USOCR; EPO; JPO	AND	OFF	2007/05/06 19:15
S12 6	852	S125 S107	US-PGPUB; USPAT; USOCR; EPO; JPO	AND	OFF	2007/05/06 19:16
S12 7	6722	(phase with shift\$4 or shift adj4 register) same (amplified or output with amplifier) same (compar\$4 or autocorrelat\$4 or auto adj4 correlat\$4)	US-PGPUB; USPAT; USOCR; EPO; JPO	AND	OFF	2007/05/06 20:15
S12 8	347	S127 S124 S107	US-PGPUB; USPAT; USOCR; EPO; JPO	AND	OFF	2007/05/06 19:32
S12 9	2242	bandwidth with (adjust\$4 or control\$4) with (amplifier)	US-PGPUB; USPAT; USOCR; EPO; JPO	AND	OFF	2007/05/06 19:32

EAST Search History

S13 0	6	S128 "247"	US-PGPUB; USPAT; USOCR; EPO; JPO	AND	OFF	2007/05/06 19:32
S13 1	17	S128 S129	US-PGPUB; USPAT; USOCR; EPO; JPO	AND	OFF	2007/05/06 20:34
S13 2	6	data adj rate adj detect\$4 same phase same (compar\$4 or correlat\$4 or autocorrelat\$4 or auto adj3 correlat\$4)	US-PGPUB; USPAT; USOCR; EPO; JPO	AND	OFF	2007/05/06 20:33
S13 3	3721	switch with (noise or interference) with amplifier	US-PGPUB; USPAT; USOCR; EPO; JPO	AND	OFF	2007/05/06 20:42
S13 4	35	S133 S107 S129	US-PGPUB; USPAT; USOCR; EPO; JPO	AND	OFF	2007/05/06 20:43
S13 5	3731	(state adj machine or switch) with (noise or interference) with amplifier	US-PGPUB; USPAT; USOCR; EPO; JPO	AND	OFF	2007/05/06 20:42
S13 6	35	S135 S107 S129	US-PGPUB; USPAT; USOCR; EPO; JPO	AND	OFF	2007/05/06 20:43